IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims are listed below for the convenience of the Examiner. No changes have been made. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Claims 1-11 (cancelled)

12. (previously presented) A method for operating a radio communication system, comprising:

receiving a signal in a receiver station by way of a first transmitting channel from a sending station;

determining, by the receiver station, a channel parameter of the first transmitting channel; and

adjusting a symbol parameter of at least a first data symbol to be transmitted from the receiver station to the sending station by way of a second transmitting channel, as a function of the channel parameter for communication of the channel parameter to the sending station.

13. (previously presented) A method according to claim 12, further comprising:

transmitting the data symbol from the receiver station to the sending station; and

ascertaining at the sending station the channel parameter of the first transmitting channel determined by the receiver station, based on the at least one data symbol received at the sending station.

14. (previously presented) A method according to claim 13, wherein the channel parameter of the first transmitting channel is at least one of a phase parameter and an amplitude parameter.

15. (previously presented) A method according to claim 14, wherein said adjusting includes changing the symbol parameter of the first data symbol to be transmitted from the receiver station to the sending station by at least one of addition and subtraction of a value of the channel parameter of the first transmitting channel.

16. (previously presented) A method according to claim 15, wherein said adjusting includes changing the symbol parameter of a second data symbol to be transmitted from the receiver station to the sending station by an opposite mathematical operation compared the changing of the first data symbol by the value of the channel parameter of the first transmitting channel.

17. (previously presented) A method according to claim 16, wherein the first and second data symbols transmitted from the receiver station are pilot symbols.

18. (previously presented) A method according to claim 16, wherein the first and second data symbols transmitted from the receiver station are user data.

19. (previously presented) A method according to claim 16, wherein a plurality of available transmitting channels exist for transmission from the sending station to the receiver station and said receiving, determining, adjusting, transmitting and ascertaining are repeated using each of the available transmitting channels as the first transmitting channel.

20. (previously presented) A method according to claim 19,

wherein the receiver station has a plurality of receiving antennas and/or the sending station has a plurality of sending antennas, and

wherein one of the first transmitting channels is in each case situated between one of the sending antennas and one of the receiving antennas.

21. (previously presented) A receiver station for a radio communication system having a sending station, comprising:

a receiving unit receiving a signal from the sending station by way of a first transmitting channel;

a determination unit determining a channel parameter of the first transmitting channel; and

an adjustment unit changing a symbol parameter of at least one data symbol, to be transmitted from said receiver station to the sending station by way of a second transmitting channel, as a function of the channel parameter of the first transmitting channel for communication of the channel parameter to the sending station.

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22. (previously presented) A sending station for a radio communication system having at least one receiver station, comprising:

a transmission unit sending a signal by way of a first transmitting channel to the receiver station;

a receiver unit receiving from the receiver station at least one data symbol having a symbol parameter adjusted for communication of a channel parameter of the first transmitting channel as a function of the at least one channel parameter; and

an ascertainment unit ascertaining the channel parameter based on the at least one data symbol received from the receiver unit.